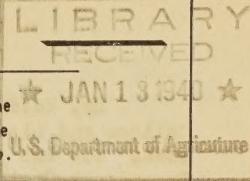


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FOOD RESEARCH

The new building of the U. S. Fruit and Vegetable Products Laboratory at Weslaco, Texas, was dedicated on December 8, 1939. The dedication coincided with Weslaco's celebration of its 20th Anniversary. The ceremonies were impressive, extremely interesting, and very well attended. At noon a luncheon at the Cortez Hotel for the speakers was sponsored by the Chamber of Commerce, civic clubs, and the public. D.F.J. Lynch, Director of the Southern Regional Research Laboratory of the Bureau, incidental to a trip to that section in relation to the affairs of his Laboratory, was present at Weslaco on the day of the dedication and spoke informally at the luncheon.

The dedication ceremonies were under the direction of J. L. Heid, Chairman, and Head of the Laboratory. Among the speakers on the program were J. L. Compere, Mayor of Weslaco, Hon. Milton H. West, Victor Schoffelmayer, Agricultural Editor, Dallas Morning News, Dr. Walter S. Flory of the Texas Agricultural Experiment Station, representing A. B. Conner, Director of that Station, Glenn White, President of the South Texas Canners Association, and R. S. Hollingshead, Acting in Charge of the Food Research Division.

The laboratory at Weslaco was started in 1931, under the name of U. S. Citrus Products Station, the work of the station being concerned mainly with citrus problems. With the increased need for conducting investigations on the freezing and canning of other fruits, as well as of vegetables, the scope of the work was widened, and the name of the station changed to U. S. Fruit and Vegetable Products Laboratory. Mr. Heid has been in charge of the station since its beginning. With the added facilities made possible by the new building it will be possible for the Laboratory to assist the processors and growers of the Southwestern States more efficiently and profitably.

Dr. M. K. Veldhuis has been appointed to head the U. S. Fruit and Vegetable Products Laboratory at Pullman, Wash., replacing Dr. H. H. Mottern who has gone to the Eastern Regional Research Laboratory.

Dr. Veldhuis received his B. S. degree from Montana State College and his Ph. D. in biochemistry from Iowa State College, Ames, Iowa. For two years he worked as Assistant Chemist at the Montana Experiment Station, and three years as Research Fellow at the Iowa State College. His work in the latter connection was concerned with studies on thermophilic fermentations.

Dr. Veldhuis entered the Bureau of Chemistry and Soils in 1935 when he was appointed to head the Raleigh, N.C., station of the Food Research Division, working on cucumber pickle research. He served in this capacity from 1935 to December 1939, when he took up his new duties at Pullman.

R. S. Hollingshead, Acting in Charge of the Food Research Division, has just returned from a months' trip to the West Coast and Texas field stations of the Division. He participated in the dedication of a new laboratory building for the latter station. En route west, Mr. Hollingshead met E. M. Chace of the Fruit and Vegetable Chemistry Laboratory and together they visited the Utah State Agricultural Experiment Station at Logan, where cooperative work is being conducted under the direct supervision of Mr. Chace. From there they went to the Seattle and Pullman stations of the Division, conferring with the workers of the stations and officials of the various cooperating agencies such as the University of Washington, The State College of Washington, and Experiment Stations. From Washington, Mr. Hollingshead accompanied Mr. Chace back to his station in Los Angeles for several days' conference concerning the work of that station. He also visited Dr. DeEds, head of the pharmacological work of the Division at San Francisco. Dr. J. A. LeClerc was Acting in Charge of the Washington office during Mr. Hollingshead's absence.

Dr. A. K. Balls spent several weeks at the Fruit and Vegetable Chemistry Laboratory in Los Angeles during December, in connection with enzyme studies being carried on at that laboratory.

Dr. H. E. Goresline spent several days at the Raleigh, N. C., station in November supervising the work of the station, and conferring with officials of the Agricultural Experiment Station.

F. C. Weber, formerly with the old Bureau of Chemistry and who has been in private industry for several years, was a caller at the cereal section of the Division recently.

H. C. Dichl, head of the U. S. Frozen Pack Laboratory at Seattle, and Horace Campbell of the same laboratory, attended the meeting of the Western Washington Horticultural Association at Vancouver, Wash., the latter part of November. On December 4 to 6, they attended the meeting of the Washington State Horticultural Association at Wenatchee. Both meetings proved to be extremely interesting and helpful.

J. L. Heid, Head of the U. S. Fruit and Vegetable Products Laboratory at Weslaco, Texas, attended the Annual Meeting of the Texas Academy in Austin, Texas, November 9-11.

H. H. Hall, of the microbiology section, has spent the past several months in Laurel, Miss., where he is cooperating in studies on the control or elimination of bacteria in the production of sweetpotato starch. His work there, however, has been interrupted by two trips to Lansing, Mich., where he assisted beet sugar manufacturers in problems pertaining to the manufacture of sugar. He is expected to return to headquarters in Washington the first week of January.

Dr. C. E. Sando and Mr. G. R. Fessenden prepared several specimens for inclusion in the corner stone of the Western Regional Research Laboratory which was laid on October 27 at Albany, Calif. Dr. Sando's contribution consisted of a specimen of bearded Durum wheat and a set of 1939 coins. These were embedded in methacrylate plastic. Mr. Fessenden mounted some hops and alfalfa, preserved by his special process. Accompanying these specimens was an acryloid waterproofed copy of the article describing the method of mounting in the plastic. This was placed in a velveteen lined walnut box built especially for it. The items were placed on exhibit for the benefit of the spectators. The Secretary gave credit to the men and made special mention of the specimens as he placed them in the corner-stone.

Specimens were loaned by G. R. Fessenden to the Atlas Powder Co. to exhibit at the Chemical Industries Exposition at the Grand Central Palace in New York the first part of December. They consisted of wild current leaves showing white blister rust infection, poison ivy leaves in autumn colors, a pink orchid, a group of pansies, and a head of ragweed. The latter item was included with the thought that certain of the hay fever sufferers in the city might be interested in seeing what one of their worst enemies actually looks like. We have been advised that the exhibit has excited a great amount of interest, both amateur and professional.

At the request of M.E.J. Friddey, in his capacity as representative of Gimbel's Department Store, and Chairman of the Allegheny Tableland Council of the Chamber of Commerce of Pittsburgh, a Preservation Exhibit, including specimens prepared by Dr. Chas. E. Sando and G. R. Fessenden was displayed at the 8th Annual Allegheny Tableland Fair held in Pittsburgh, Pa., October 18-21.

The fair, which is an annual event, is a means of enabling the people of the Allegheny Tableland to show their products to the people of Pittsburgh and they show their appreciation by taking advantage of the opportunity to the fullest extent, sending a great variety of exhibits from farm, home and school.

A great deal of favorable comment not only from officials of Pittsburgh but from visitors and the press resulted from the Division's attractive display, and unusually complimentary and appreciative letters reached the Secretary and Dr. Knight concerning the part of this exhibit played in making this year's fair a great success. Dr. Sando personally

transported the material to Pittsburgh and arranged it in an exhibit form 36 feet in length. All expenses incidental to this display were defrayed by Gimbel Brothers of Pittsburgh.

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RURAL ELECTRIFICATION RESEARCH

S. H. McCrory and Harry L. Garver spent two days during the latter part of October in the Irwinville Homestead Area of the Farm Security Administration investigating the feasibility of making an engineering analysis of operations and processes on several of the farms, in an effort to find or adapt uses of electricity to operations on low-income farms. It is hoped that uses which will pay their own way and perhaps net additional income may be found. Work on this project will be started immediately.

Mr. Garver has just returned from Indiana and Nebraska where he visited the research projects which are being conducted cooperatively between Purdue University, University of Nebraska and this Bureau. He stopped in Chicago for the Rural Electrification Section meeting of the American Society of Agricultural Engineers where he presented a paper on "What Agricultural Engineers are Contributing to Farm Electrification Research Results."

* * *

NAVAL STORES RESEARCH

C. F. Speh attended the meetings of the American Institute of Chemical Engineers in Providence, R.I., November 14-15.

Mr. Speh left Washington on December 3, for a visit to the Naval Stores Station at Olustee, Fla. While in the South Mr. Speh visited the University of Florida at Gainesville, Fla., the Georgia School of Technology at Atlanta, Ga., and the Georgia Extension Service at Athens, Ga.

Publications

Fourth Semi-Annual Naval Stores Report on Production, Consumption and Stocks of Turpentine and Rosin in the United States. ACE-11. Nov. 15, 1939.
(C. F. Speh).

Fireproofing Christmas Trees. U.S. Dept. Agri. Leaflet 193, Dec. 5, 1939.
(Martin Leatherman)

On December 13 by arrangement of L. E. House, District Supervisor of Naval Stores Conservation Program of the U. S. Forest Service in Jacksonville District, two assistants and 16 field men attended a demonstration of the work that is being done at the Naval Stores Station. The Jacksonville District of the Naval Stores Conservation Program, headquarters Jacksonville, covers East Florida extending as far south as Ocala, as far west as Live Oak, and for Georgia from points south of Waycross as far east as Douglas.

A fire still charge was run with crude gum, and on the steam still a charge was run with cleaned gum. Gum cleaning work was carried on at the same time at the plant laboratory for the purpose of showing the difference between the old and new methods of processing turpentine gum. The work being done was explained by G. P. Shingler, Senior Chemist in charge. The layout of the grounds and the fire protection were shown by E. L. Patton, Associate Chemical Engineer. Other members of the Station staff and labor force assisted and answered questions about the work each of them had to do.

These demonstrations are parts of the training program given the field representatives by the Supervisor to acquaint the men with the work being done in naval stores in Olustee, Fla. by the Naval Stores Station, Southern Forest Experiment Station Branch and the State Nursery.

* * *

FARM STRUCTURES RESEARCH

Wallace Ashby, C. F. Kelly, Thayer Cleaver and H. J. Barre attended the fall meeting of the American Society of Agricultural Engineers at Chicago. Mr. Kelly presented a paper on grain storage and Mr. Ashby acted as chairman at two of the Structures Division sessions. A paper on low-cost farm housing was furnished by T.A.H. Miller although he did not attend the meeting. H.J. Barre presented a paper on corn storage. While at the meeting conferences were held with cooperators from the State Experiment Stations. Wheat and grain sorghum projects were discussed with Professor Fenton of the Kansas Station. The farm-house project was discussed with Professor F. W. Duffee and M.J. LaRock and S.A. Witzel, cooperators on this project in Madison, Wis.

After the meeting, Messrs. Ashby, Barre and Kelly visited Thayer Cleaver and the grain storage projects at Urbana and conferred with Professor E. W. Lehmann and W. A. Foster of the Agricultural Engineering Department, Dr. Burliss of the Agronomy Department, and Mr. Flint and Dr. Farrar of the State Natural History Survey, regarding conduct of the wheat and corn storage projects. Mr. Veach of the University and Mr. Cleaver have set up special equipment for measuring the equilibrium moisture content of grains at various temperatures and humidities.

Mr. Ashby and Dr. Barre conferred at Ames with Professor J. B. Davidson of the Agricultural Engineering Department and discussed progress of work in the various sub-projects on corn storage with Messrs. Henderson, Connor, Kirstein and Atkins.

H. J. Thompson left California with a test shipment of oranges on December 7 and arrived at New York on December 15. The test included refrigerator cars of oranges protected against cold weather in various ways.

A. H. Senner is preparing his experimental oil burning orchard heaters for cold weather tests at Baltimore. Since the cessation of similar tests last spring the atomizing burners have been further modified. Mr. Senner attended the recent meeting of the American Society of Mechanical Engineers in Philadelphia.

A bulletin manuscript covering the tests on experimental farm-houses at Athens, Ga., has been received from J. W. Simons, Messrs. Mitchell and Hudson have been assisting Mr. Simons on this work in co-operation with F. B. Lanham of the University of Georgia.

* * *

CHEMICAL ENGINEERING RESEARCH

On November 21, at the invitation of Dean S. S. Steinberg, Dr. David J. Price delivered a lecture before the students of the College of Engineering at the University of Maryland. The subject of his address was, "Dust Explosions in Industrial Plants - Their Causes and Methods of Prevention." Paul W. Edwards, who accompanied Dr. Price, assisted in the demonstration of dust explosions. The sound motion picture "Dangerous Dusts," also was shown to the audience.

Following the meeting with the College of Engineering, Dr. Price had conferences with Dean Steinberg and Professor J. W. Just, Director of Fire Service Extension at the University of Maryland, with reference to the program in that State for firemen's training courses.

On December 3 Dr. Price attended the annual meetings of the Dust Explosion Hazards and Farm Fire Protection Committees, both part of the National Fire Protection Association, of which he is chairman. Hylton R. Brown, secretary of the Dust Explosion Hazards Committee, also attended the meeting, which was well attended. At that meeting the report of the subcommittee which has been working on a safety code for sulfur dust handling was approved by the main committee, and the chairman was authorized to present it for final adoption at the annual meeting of the National Fire Protection Association next May. This authorization also included submission of the code to the American Standards Association for approval as American Standard.

Arrangements were made to obtain reports from representatives of the different country grain elevator associations on explosion and fire losses, and recommendations for protection. These recommendations will be submitted to a subcommittee, of which Mr. Brown is chairman, to be considered and later submitted to the main committee.

Harry E. Roethe, secretary of the Farm Fire Protection Committee, attended that committee meeting in Chicago on December 5. The meeting was unusually well attended. It was found that the losses from farm fires had risen from approximately \$95,000,000 to \$110,000,000 annually. Firemen's training as it is related to rural fire departments was discussed, and the interesting fact was brought out that fire losses are decreasing in States, or sections of States, where firemen are taking courses at the

fire schools. Consideration was given to the question of rural electrification. While in Chicago Mr. Roethe conferred with State Fire Marshals, agricultural engineers, and representatives of insurance companies and of national organizations on matters pertaining to the prevention and control of fires on farms.

On December 6, at 4 o'clock, Dr. Price addressed the Chicago Chapter of the Society of Grain Elevator Superintendents at a meeting held in the Board of Trade Building. His subject was "Dust Explosion Prevention in Terminal Grain Elevators," and the address was followed by a showing of the Division's sound motion picture and a demonstration of a dust explosion. Particular attention was given at this meeting to the need for dust control equipment in grain elevators. The members of the Society who were present engaged in an open discussion of the dust explosion problem when questions were asked concerning the many phases of dust explosion prevention and protection. This meeting was held as a result of the Rosenbaum and Norris grain elevator explosions in Chicago last May. Conferences also were had with members of the Weighmaster's staff of the Board of Trade.

On December 7 Dr. Price conferred with Messrs. Cannon and Mailin, supervising engineers of construction, and officials of the Northern Regional Laboratory in Peoria, Ill., with reference to construction matters, and he found that everything is progressing satisfactorily. He attended the annual banquet of the Association of Commerce of Peoria, which Dr. Knight addressed on the subject of the laboratory and its work. While in Peoria Dr. Price conferred with Grain Supervisor Stanfield.

A representative of Scientific Films, Inc., came to the Bureau for the purpose of taking motion pictures in colors of the dust explosion testing station at Arlington Farm as well as the laboratory apparatus which is used in determining the explosibility of different dusts and methods of providing protection against explosion hazards. Films of this type are released about six times a year by the Scientific Films Company through Paramount. They are designed to call attention to different lines of scientific work.

Richard L. Hanson and Burton E. Davis attended the 17th Chemical Industries Exposition held at Grand Central Palace, N.Y., from Dec. 4-9. They supervised the erection of an educational exhibit relating to the Regional Research Laboratories, and were in attendance at the Exposition every day during show hours to answer questions and explain the purpose and make-up of the laboratories. Mr. Hanson conferred with various companies exhibiting at the show in regard to laboratory equipment and services. Visits were made to the Bell Telephone Company's laboratories, where a detailed survey was made of their micro-laboratory, and to the Laboratory Furniture Co. at Long Island City.

On December 11, Mr. Hanson and Mr. Davis visited the Food and Drug Laboratories at Philadelphia and the Eastern Regional Research Laboratory under construction at Wyndmoor, Pa.

On Nov. 27 Byron J. Culp attended a meeting of the Fire Hazards Committee of the Federal Fire Council, when the survey of the District of Columbia fire department facilities as they relate to Government-owned and occupied buildings was presented and approved. This report later was accepted by the Federal Fire Council.

On Nov. 28 Messrs. Brown and Culp attended demonstrations of fire-extinguishing tests conducted by the Lux Traveling Laboratories at Arlington Farm.

* * *

INDUSTRIAL-FARM PRODUCTS RESEARCH

Hides, Tanning Materials, and Leather Section.

P. White, Director of the Leather and Shoe Research Association, Department of Scientific Industrial Research, Wellington, New Zealand, visited the Section on Nov. 28. Mr. White discussed at some length several lines of research on hides and leather in which both his organization and the Bureau of Agricultural Chemistry and Engineering are actively engaged.

Agricultural By-products Laboratory, Ames, Iowa.

Dr. S. I. Aronovsky and Dr. N. Porges made a tour of industrial fermentation plants in Iowa, Missouri, and Illinois during the week of Nov. 20. At Kansas City they visited the plant of the Jensen-Salsbery Laboratories where they were especially interested in their equipment for the production of calcium gluconate. At St. Louis, Mo., they visited the Anheuser-Busch plant where they were conducted through various parts of this huge plant. At Granite City, Ill., they visited the Union Starch and Refining Company where they were conducted through the wet milling plant and the starch and syrup plants. At Peoria, Ill., they called on Dr. L. B. Howard, Acting Director of the Northern Regional Research Laboratory, who accompanied them on a visit to the Commercial Solvents Corporation plant and to the Hiram Walker Distilling Company. At Clinton Iowa they visited the plant of the Clinton Company, manufacturers of corn products, lactic acid, soy bean oil and meal.

Dr. F. F. Nord, Fordham University, editor of *Ergebnisse der Enzymforschung*, was visitor at the laboratory on November 28.

Soybean Industrial Products Laboratory.

Dr. R. T. Milner, Director of the Laboratory, was in Washington the week of Nov. 25 for conference relative to the work of the laboratory.

Among those attending the meeting of the American Institute of Chemical Engineers were Dr. G. H. Brother and Dr. A. K. Smith of the Urbana staff. Following the meeting various companies in the New England States were visited, and conferences were held relative to the industrial utilization of soybean meal and protein in plastics, leather finishings, paper sizings, etc.

A paper entitled "Technologic Problems in the Processing of Soybeans" was presented by W. H. Goss before the American Society of Agricultural Engineers which met in Chicago December 4-8.

CARBOHYDRATE RESEARCH

H. S. Paine visited the sugarcane field stations at Baton Rouge, and Houma, La., the tung oil field station at Bogalusa, La., and the Sweetpotato Starch Plant at Laurel, Miss., during the last of November.

W. Gordon Rose is in the Louisiana-Mississippi tung area in connection with solvent extraction work on tung press cake. He visited the solvent extraction plant of Meade Johnson and Company in Evansville, Ind., en route to Louisiana. According to present plans the solvent extraction process developed by the Division will be tested further on a pilot plant basis through cooperation of tung growers and tung oil producers.

Publications

Technical Bulletin 688. "Comparative Chemical Composition of Juices of Different Varieties of Louisiana Sugarcane" by C. A. Fort, Carbohydrate Research Division, Bureau of Agricultural Chemistry and Engineering, and Nelson McKaig, Division of Soil Fertility, Bureau of Plant Industry.

Article -- "Fiber Content of Commercial Varieties of Louisiana Sugarcane" by M. A. McCalip. The Sugar Bulletin, Vol. 18, No. 1, pp. 18-23; The Sugar Journal, Vol. 12, No. 4; pp 25-28, and 31.

Article -- "Pectin from Sweetpotato Pulp" by E. Yanovsky, Food Industries, Vol. 11, p. 710, Dec. 1939.

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FARM MECHANICAL EQUIPMENT RESEARCH

R. B. Gray spent December 6 and 7 in Chicago attending the sessions of the American Society of Agricultural Engineers and making contacts with various agencies in connection with farm power and machinery research activities. At a round table conference conducted jointly by Messrs. Lathrop and Gray, the question of ways and means of collecting agricultural wastes for industrial uses provoked considerable discussion by both agricultural experiment station engineers and those of industry.

The following two days were spent at the Allis-Chalmers Manufacturing Company - Tractor Division, Milwaukee, and the J. I. Case Company of Racine discussing machinery problems in general and new developments in particular.

At a session of the A.S.A.E. meeting at Chicago devoted mainly to the activities of farm tillage machinery laboratory at Auburn the following papers were presented:

- R. M. Merrill, "The Tillage Machinery Laboratory"
- E. D. Gordon, "A Laboratory Study of Soil Reactions on Disks"
- I. F. Reed, "Use of Power Driven Soil Resistance Recorder for Study of Compaction of Soils by Tractors"

G. A. Cumings was elected general chairman of the National Joint Committee on Fertilizer Application at the annual meeting of the committee in New Orleans on November 21. The committee reports that in 1939 research and other activities on methods of fertilizer application was expanded considerably in the extreme western States, that a number of machines equipped with improved fertilizer-placement equipment was placed on the market, and that the fertilizer-placement research program was broadened to cover such fundamental phases as separate placement of the phosphate near the seed or plant roots, the use of starter nutrient solutions on transplanted seedlings, and deferred applications of a certain portion of the fertilizer. Through the efforts of W. H. Redit and other members of a special committee considerable progress was made toward adoption by various State experiment stations of the top-delivery type of fertilizer hopper which has been used in the Bureau since the inauguration of the fertilizer machinery project.

E. M. Mervine, chairman of the Power and Machinery Division of the American Society of Agricultural Engineers, presided at the sessions held in Chicago December 5 and 6. One session featured the Bureau Laboratories at Auburn, Ala., and another featured the agricultural engineers responsibilities in connection with agricultural wastes.

Messrs. Gray, Mervine, and McBirney met with the sugar beet machinery project staff of the University of California and the advisory committee of the U. S. Beet Sugar Association in Davis, Calif., on Nov. 17 and 18, to review the work on the project since the last meeting in May. Reports on the work were presented, recent movies were shown, some of the machinery was demonstrated, and the program for the future was discussed.

An experimental direct-mounted tractor sweetpotato digger has given excellent service in harvesting 30 acres of sweetpotatoes grown for the Laurel Starch Plant. This unit combined with the use of a specially designed 15 bag cart permits the reduction of normal use of labor in harvesting to about one-fifth and to save from 10 to 30 percent more of the crop.

Observations thus far from field experiments with sweetpotatoes seem to indicate in a very convincing way that greater spacing of sweetpotatoes grown for the manufacture of starch is better than closer spacing heretofore used and generally recommended in the production of table-use sweetpotatoes in which "jumbo" or over-size roots are not wanted. For starch sweetpotatoes early planting is best. The wide spacing of plants permit savings essential to planting a large acreage.

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Separations

Frances Popluder	Asst. Clerk-Stenographer	Business Admin.
Benedict J. Brucia	Junior Clerk	" "
Sylvia Raine	Senior Stenographer	" "
Sam Schneider	Asst. Messenger	" "
Sammie Phillips	Sr. Scientific Aide	Prot. & Nut. Res.
Helen L. Gardner	Asst. Clerk-Stenographer	Fert. Res.
Mrs. Katherine Z. Phaneuf	Junior Stenographer	Plans and Service
Fred Henry McCrary	Associate Architect	" "
Solomon Ducor	Sr. Arch. Draftsman	" "
Robt. Thom. Moore	Asst. Architect	" "
Mary Regina Speicher	Junior Stenographer	" "
Edith L. Schwabsky	" "	" "
Mildred Rosendorf	" "	" "
John C. Dalrymple	Sr. Engr. Draftsman	" "
Harry Kalkin	Asst. Arch.(Trans. to Weather Bu)	" "
Sidney Sealfon	Chief Arch. Draftsman	" "
Grover Cleveland Meiners	Arch. Draftsman	" "
Geo. Wm. Guther	Asst. Mech. Engineer	" "
Samuel Goldner	Sr. Arch. Draftsman	" "
Theodore P. Bialles	Asst. Arch. Engr.(Trans. to Weather Bureau)	" "
John Schavoni	Sr. Arch. Draftsman do	" "
James W. M. Dean	Asst. Civil Engineer	" "
Edwin D. Hunt	Engr. Inspector (Oxford, N.C.)	" "
Darrol Francis Gooley	Ch. Arch. Draftsman	" "
Wesley G. Greer	Arch. Draftsman	" "
Melville C. Hall	Asst. Civil Engineer	" "
Hugh D. O'Rourke	Asst. Mech. Engineer	" "
Nathaniel Litvin	Asst. Mech. Engineer	" "
Michael Cosentino	Asst. Mech. Engineer	" "
Henry Thom. Lisante	Senior Arch. Draftsman	" "
Harold LeRoy Henderson	" " "	" "
Walter F. Spitzform	Asst. Architect	" "
Leonard Peller	Asst. Mechanical Engr.	" "
Nathaniel L. Schiffman	Jr. Mech. Engineer	" "
Frank L. Martin	Asst. Structural Engineer	" "
James Robert Thrower	Senior Architect	" "
Emil Fels	Architect	" "
Ernest J. Bruno	Assoc. Architect	" "
Geo. S. Brock, Jr.	Assoc. Architect	" "
Vespucci V. Petrone	Assoc. Architect	" "
F. Carl Weigelt	" "	" "
Saul Uhr	Assoc. Struc. Engr.	" "
Sidney Sealfon	Ch. Arch. Draftsman	" "
Malcolm H. Lahr.	" " "	" "
Darold F. Gooley	Arch. Draftsman	" "
John Henry Kelly Jr.		

Recent Appointments - Indefinite or Probationary

Nolan S. Mills	Laborer wae (Laurel, Miss.)	Carbohydrate Res.
Louis M. Gatlin	" " "	" "
Frank W. Hauck	Jr. Laborer wae (Urbana, Ill.)	Ind. Farm Prods.
Mrs. Carolyn E. Streibich	Jr. Clerk-Steno. (Peoria.)	No. Reg. Res. Lab.
Clifton Eugene Swift	Collaborator	Food Research
Lillian C. Harris	Jr. Clerk-Steno (San Francisco Calif.)	" "
Ernest B. Kester	Sr. Chemist (Albany, Calif.)	West. Reg. Res. Lab.

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Recent Appointments - Temporary

Mrs. Mary B. Moore.	Senior Stenographer	Reg. Res. Labs.
Mrs. Mary Ellen O'Malley	Asst. Clerk-Stenographer	" " "
William H. Andrews	Min. Mechanic (Fireman)	Fort. Research
Clifford H. Billett	Sr. Photographer (Stoneville, Miss.)	Cotton Ginning Inv.
Angela Josephine Murray	Asst. Clerk-Stenographer	Reg. Res. Labs.

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